

SHEET LIST

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				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND		G-101 - DRAWING INDEX	
				RECOMMENDED FOR APPROVAL			
				_____ Chief, Transportation Planning and Design Section APPROVED		_____ Date	
				_____ Chief, Division of Transportation Engineering		_____ Date	
				Designed by: <u> FH </u> Drawn by: <u> KMR </u> Checked by: <u> FH </u>		Project No.: <u> 32207.003 </u>	
						SHEET <u> XX </u> of <u> 27 </u>	

HUAN CHEE/NGUNG
15120 BARNESVILLE ROAD
ACCOUNT # 161100918447
LIBER 47039 FOLIO 0076

NEW / SEPTIC DISPOSAL
TRENCH, 30' L x 2' W x 8' D
(TYP. OF 2)

NEW OBSERVATION
PORT (TYP. OF 2)

TAX ID: 11-00920268
PARCEL P113
BARUA PRAKASH
L. 35442 F. 167
4592 S.F. - 0.105 AC

JOHN CAVELL
15110 BARNESVILLE ROAD
ACCOUNT # 1100920268
LIBER 35442 FOLIO 167

25' WIDE CSX RIGHT-OF-WAY
FOR ACCESS TO SIDINGS AND
ADDITIONAL PROPERTY ALONG
ORIGINAL RIGHT-OF-WAY
L.TD 8 F.5

CSX TRANSPORTATION, INC.
LIBER TD 8 FOLIO 5

EXISTING BUILDING
TO BE REMOVED

MD 117 (BARNESVILLE ROAD)

REMOVE EXISTING SEPTIC
SYSTEM PIPING AND SEPTIC
TANK. EXISTING DISPOSAL
TRENCHES TO REMAIN.

NEW BUILDING
WITH SINGLE
RESTROOM
FOR TRANSIT
STAFF ONLY


— NEW 1,500 GALLON,
PRECAST CONCRETE
SEPTIC TANK

EXISTING HOYLE'S MILL
BUILDING TO REMAIN

CSX TRANSPORTATION, INC.
LIBER TD 8 FOLIO 5

CSX TRANSPORTATION, INC.
RAILROAD RIGHT-OF-WAY

HORIZONTAL SCALE: 1"=10'



A horizontal scale bar with alternating black and white segments. It is labeled with 10' at the left end, 0 in the middle, 10' at the right end, and 20' at the far right end.

PROFESSIONAL CERTIFICATION.
I HEREBY CERTIFY THAT THESE DOCUMENTS
WERE PREPARED OR APPROVED BY ME, AND
THAT I AM A DULY LICENSED PROFESSIONAL
ENGINEER UNDER THE LAWS OF THE STATE
OF MARYLAND, LICENSE NO. _____
EXPIRATION DATE: _____



Whitman, Requardt & Associates, LLP
801 South Caroline Street, Baltimore, Maryland 21231

[illegible]

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

	RECOMMENDED FOR APPROVAL
--	--------------------------

Chief, Transportation Planning and Design Section

APPROVED

Chief, Division of Transportation Engineering

Designed by	ABR
-------------	-----

Drawn by	AE
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Checked by _____

C-101 SEPTIC SYSTEM REPLACEMENT PLAN

BOYDS TRANSIT
IMPROVEMENTS

SCALE : 1" = 10'

JUNE 2022

Project No. :	32207.003
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SHEET XX of 27

ARCHITECTURAL ABBREVIATIONS

ABV	ABOVE	EW	EACH WAY
AC	AIR CONDITIONING (CONDITIONER)	EW	ELECTRIC WATER COOLER
AD	ACCESS DOOR (OR PANEL)	EWCA	ELECTRIC WATER COOLER – ACCESSIBLE
ADA	AMERICANS WITH DISABILITIES ACT	EXIST	EXISTING
ADD	ADDENDUM	EXP	EXPANSION OR EXPOSED
ADJ	ADJACENT	EXT	EXTERIOR
AES	ABOVE EXISTING SLAB	F	FILLER
AF	ACCESS FLOOR	FC	FAN COIL UNIT
AFF	ABOVE FINISHED FLOOR	FD	FLOOR DRAIN OR FIRE DAMPER
AHU	AIR HANDLING UNIT	FDR	FOLDING DOOR (WOOD OR FABRIC)
ALT	ALTERNATE	FEX	FIRE EXTINGUISHER WALL MOUNT W/O CABINET
ALUM	ALUMINUM	FEC	FIRE EXTINGUISHER CABINET
APC	ACOUSTICAL PANEL CEILING (LAY-IN)	FH	FLAT HEAD
APPROX	APPROXIMATE	FIRE T	FIRE TREATED
ARCH	ARCHITECTURAL	FIN	FINISH OR FINISHED
ASB	ASBESTOS	FIX	FIXTURE
ASP	ASPHALT	FL	FLASHING
ATC	ACOUSTICAL TILE CEILING (CONCEALED SUSPENSION)	FLM	FULL LENGTH MIRROR
AWP	ACOUSTICAL WALL PANEL	FLR	FLOOR
		FR	FIRE RATED
BB	BULLETIN BOARD (CLASS COVERED)	FRC	FIBER-REINFORCED COATING
BC	BOTTOM OF CURB	FS	FOLDING SHELF
BD	BOARD	FSS	FOLDING SHOWER SEAT
BEN	BENCH	FT	FOOT OR FEET
BETW	BETWEEN	FTG	FOOTING
BLDG	BUILDING	FWP	FABRIC-WRAPPED PANEL (FABRICATED; TACKABLE; ACOUSTICAL PANEL)
BM	BEAM		
BOT	BOTTOM	GA	GAUGE
BR	BRICK	GALV	GALVANIZED
BR/S	BACKER ROD AND SEALANT	GB	GRAB BAR
		GEN	GENERAL
C	CONDUIT	GL	GLASS
C/C	CENTER TO CENTER	GLM	GLASS UNIT MASONRY (GLASS BLOCK)
CB	CHALK BOARD	GMU	GLAZED MASONRY UNIT
CAB	CABINET	GRD	GROUND
CARP	CARPET	GP	GYPSPUM PLASTER
CARPT	CARPET TILE	GRT	GROUT
CEM	CEMENT	GVP	GYPSPUM VENEER PLASTER
CER	CERAMIC	GYPB	GYPSPUM BOARD (WALL OR CEILING)
CI	CAST IRON	GYPBS	GYPSPUM BOARD SHAFT-WALL ASSEMBLY
CC	CORNER GUARD	H	HEAD
CH	CEILING HEIGHT	HB	HORIZONTAL BLIND
CJ	CONTROL JOINT	HDW	HARDWARE
CL	CENTERLINE	HM	HOLLOW METAL
CLOS	CLOSET	HOR	HORIZONTAL
CLG	CEILING	HP	HIGH POINT
CLR	CLEAR	HR	HOUR
CMP	CORRUGATED METAL PIPE	HT	HEIGHT
CMU	CONCRETE MASONRY UNIT	HTR	HEATER
CO	CLEAR OPENING	HVAC	HEATING, VENTILATING AND AIR CONDITIONING
COL	COLUMN	HW	HOT WATER
COMP	COMPACTED	ID	INSIDE DIAMETER
CONC	CONCRETE	IN	INCH
CONSTR	CONSTRUCTION	INSUL	INSULATION
CONT	CONTINUOUS	INT	INTERIOR
CONV	CONVECTOR	LAV	LAVATORY
CR	COLD ROLLED	LG	LONG
CSK	COUNTERSUNK	LIN	LINOLEUM FLOOR COVERING
CSPE	CHLOROSULFONATED POLYETHYLENE ELASTOMER	LLV	LONG LEG VERTICAL
CT	CERAMIC TILE	LOC	LOCATION
CTR	COUNTER	LOCK	LOCKER
CW	COLD WATER	LP	LOW POINT
CX	CONNECT TO EXISTING	LT	LIGHT
		LTG	LIGHTING
D	DOUBLE	LV	LOUVER
DEG	DEGREE	M	MIRROR OR MEN
DEMO	DEMOLITION	MACH	MACHINE
DET	DETAIL	MAS	MASONRY
DF	DRINKING FOUNTAIN	MATL	MATERIAL
DIA	DIAMETER	MAX	MAXIMUM
DIR	DIRECTORY	MC	MEDICINE CABINET
DN	DOWN	MDF	MEDIUM DENSITY FIBERBOARD
DO	DOOR OPENING	MFB	MINERAL FIBER BLANKET
DR	DOOR	MECH	MECHANICAL
DS	DOWNSPOUT	MET	METAL
DWG	DRAWING	MFR	MANUFACTURER
		MH	MANHOLE
E	EAST	MIN	MINIMUM
EA	EACH	MISC	MISCELLANEOUS
EF	EACH FACE	MK	MARK
EFS	EXTERIOR FINISH SYSTEM	MO	MASONRY OPENING
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	MP	METAL PANEL
EJ	EXPANSION JOINT	MR	MOP RACK
EL	ELEVATION	MTD	MOUNTED
ELEC	ELECTRIC OR ELECTRICAL	MTL	METAL
ELEV	ELEVATOR	N	NORTH
EM	ENTRY MAT	NA	NOT APPLICABLE
EP	ETHYLENE PROPYLENE-BASED (SINGLE PLY ROOFING)	ND	NOT IN CONTRACT
EPB	ELECTRIC PANEL BOX	NIC	SANITARY NAPKIN DISPENSER
EPDM	ETHYLENE-PROPYLENE-DIENE MEMBRANE	NO	NUMBER
EPS	EXPANDED POLYSTYRENE	NOM	NOMINAL
EPX	EPOXY	NTS	NOT TO SCALE
EQ	EQUAL		
EQUIP	EQUIPMENT		
EST	ESTIMATE		
EUH	ELECTRIC UNIT HEATER		

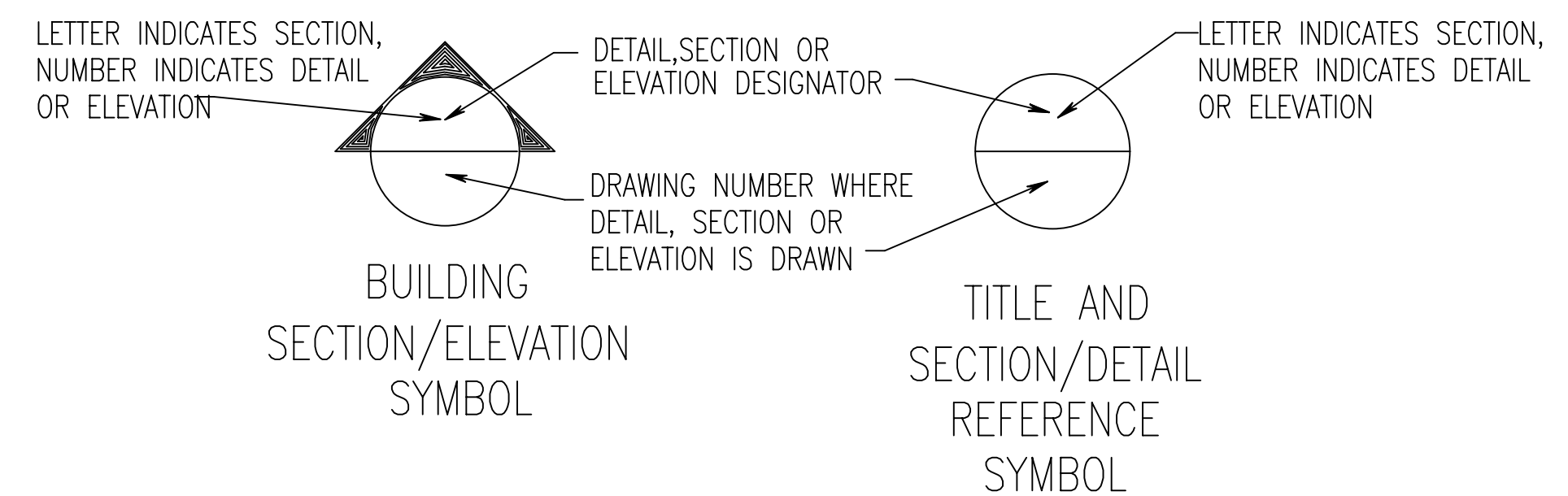
OA	OVERALL	OPNG	OPENING
OC	ON CENTER	OPP	OPPOSITE
OD	OUTSIDE DIAMETER	OZ	OUNCE
OFF	OFFICE	PAV	PAVER TILE
OHD	OVERHEAD COILING DOOR	PC	PIECE
OHG	OVERHEAD COILING GRILLE	PF	PLASTIC FABRICATION
OP	OPERABLE PANEL PARTITION (HUNG FROM OVERHEAD TRACK)	PL	PLATE
		PLAM	PLASTIC LAMINATE
		PLAS	PLASTER
		PREFAB	PREFABRICATED
		PRES T	PRESSURE TREATED
		PT	PAINT
		PTD	PAPER TOWEL DISPENSER
		PTN	PARTITION
		PVC	PPOLYVINYL CHLORIDE
		QT	QUARRY TILE
		QTY	QUANTITY
		R	RISER OR RADIUS
		RB	RESILIENT WALL BASE AND ACCESSORIES (VINYL BASE; RUBBER BASE; TREADS; NOSING; EDGINGS)
		RCP	REINFORCED CONCRETE PIPE
		RD	ROOF DRAIN OR ROUND
		REBAR	REINFORCING BAR
		REINF	REINFORCED OR REINFORCING
		RESF	RESINOUS FLOORING
		REQ	REQUIRED
		REQ'D	REQUIRED
		RET	RETURN
		REV	REVISION
		RF	RESILIENT FLOORING (VINYL; RUBBER; VINYL COMPOSITION; SHEET FLOORING)
		RH	ROBE HOOK
		RM	ROOM
		RO	ROUGH OPENING
		RWR	RECESSED WASTE RECEPTACLE
		RV	ROOF VENT
		RX	REMOVE EXISTING
		S	SILL, SOUTH OR SINGLE
		SC	SPECIAL COATING (OTHER THAN PAINT SYSTEMS)
		SCH	SCHEDULE OR SCHEDULED
		SCR	SHOWER CURTAIN ROD
		SD	SOAP DISPENSER OR STORM DRAIN
		SECT	SECTION
		SF	SQUARE FOOT OR SQUARE FEET
		SFT	STRUCTURAL FACING TILE
		SH	SHOWER
		SHT	SHEET
		SIM	SIMILAR
		SJ	STEEL JOIST
		SND	SANITARY NAPKIN DISPENSER
		SOD	SECTIONAL OVERHEAD DOOR (STEEL; ALUMINUM; PLASTIC PANEL)
		SPEC	SPECIFICATION
		SP	STAND PIPE
		SQ	SQUARE
		SS	STAINLESS STEEL OR SERVICE SINK
		SSM	SOLID SURFACING MATERIAL
		STAT	STATIONARY
		STL	STEEL
		STRUCT	STRUCTURAL OR STRUCTURE
		SUSP	SUSPENDED
		SWR	SURFACE-MOUNTED WASTE RECEPTACLE
		SYS	SYSTEM
		T	TILE
		TOB	TOWEL BAR
		T&B	TOP & BOTTOM
		T&G	TONGUE & GROOVE
		TC	TOP OF CURB
		TCO	TOILET SEAT COVER DISPENSER
		TEL	TELEPHONE
		TER	TERRAZZO
		TH	THICK
		TO	TOP OF
		TOS	TOP OF STEEL
		TOW	TOP OF WALL
		TP	TOILET PARTITION (WATER CLOSET; URINAL; SHOWER; SCREEN)
		TPD	TOILET PAPER DISPENSER
		TR	TREAD
		TYP	TYPICAL
		U	UNIT
		UNO	UNLESS OTHERWISE NOTED
		UR	URINAL



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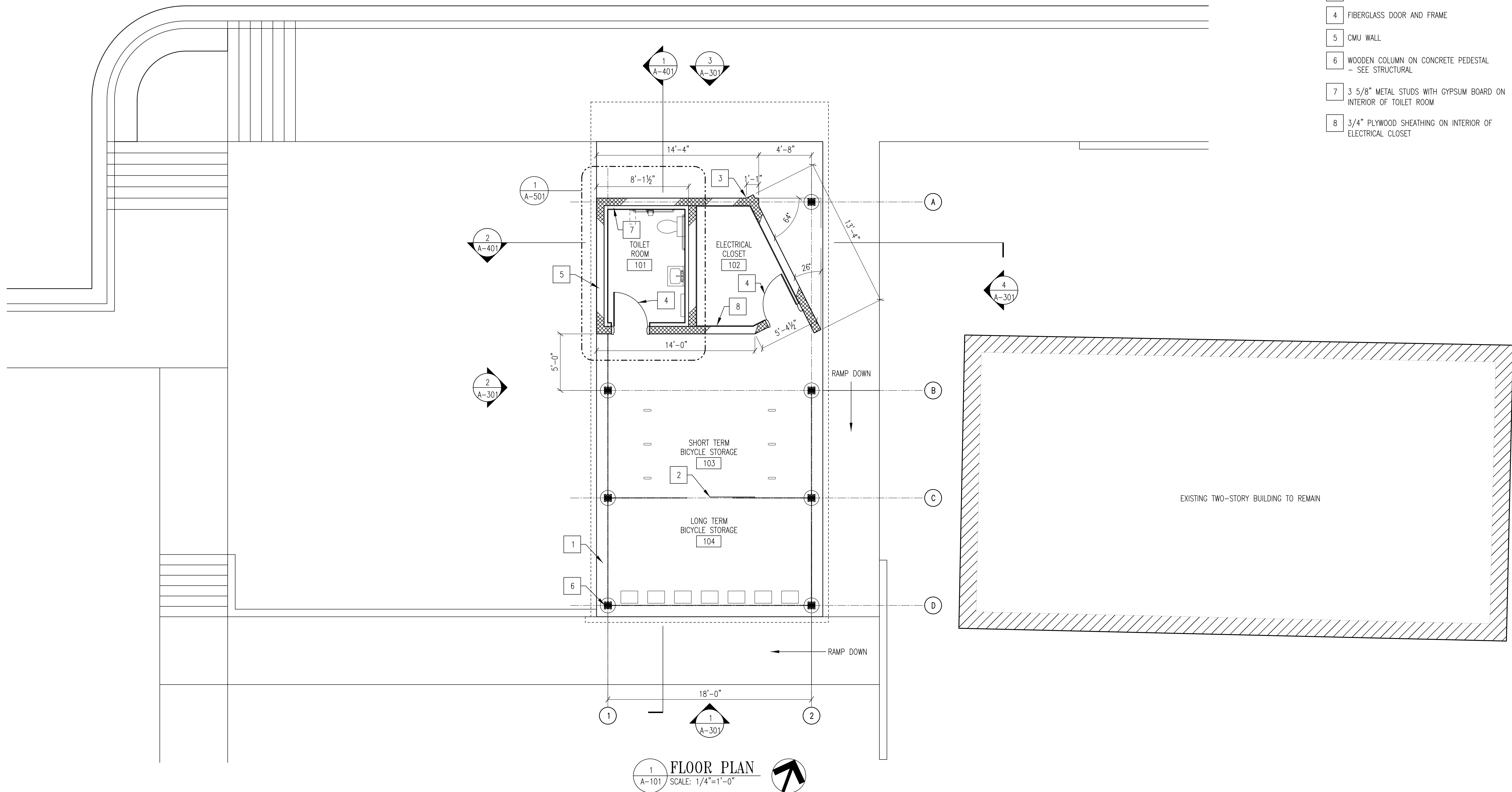
LEGEND

	BRICK		DOOR NUMBER SYMBOL
	CONCRETE MASONRY UNITS		LOUVER NUMBER SYMBOL
	STRUCTURAL CLAY UNITS		WINDOW NUMBER SYMBOL
	GYPSPUM BOARD PARTITIONS		ROOM NUMBER SYMBOL
	WOOD-FINISH GRADE		WALL/BUILDING SECTION SYMBOL
	WOOD BLOCKING		TITLE AND DETAIL REFERENCE SYMBOL
	RIGID WALL/PERIMETER INSULATION		PARTITION TYPES
	RIGID ROOF INSULATION		DEMOLITION KEY NOTES
	BATT INSULATION		CONSTRUCTION KEY NOTES
	CONCRETE		REVISION
	POROUS FILL		NORTH ARROW (CONSTRUCTION NORTH)
	EARTH		FIRE EXTINGUISHER – WALL MOUNT W/O CABINET
	METAL PATTERN		FIRE EXTINGUISHER AND CABINET



				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND		A-001 – ABBREVIATIONS & LEGEND	
				RECOMMENDED FOR APPROVAL		BOYDS TRANSIT IMPROVEMENTS	
				Chief, Transportation Planning and Design Section APPROVED		Date	
				Chief, Division of Transportation Engineering		Date	
				Designed by: <u>WRA</u>		Drawn by: <u>KMR</u>	
				Checked by: <u>FH</u>		SCALE : NO SCALE	
				NO.		JUNE 2022	
				REVISION		Project No. : <u>32207.003</u>	
				DATE		SHEET <u>XX</u> of 27	
				BY			

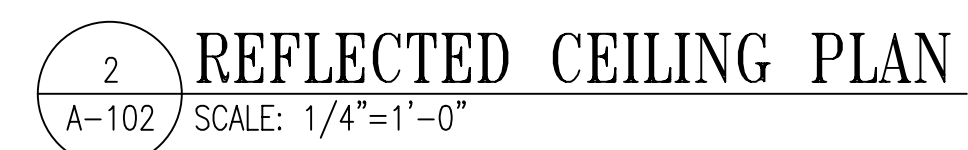
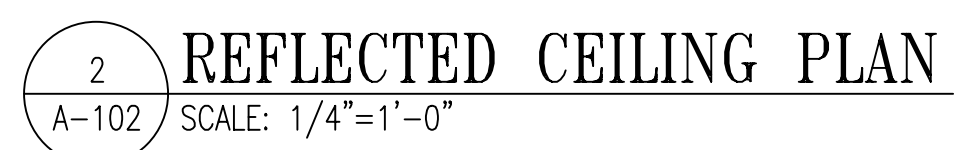
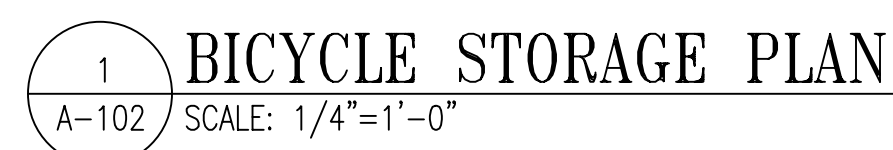
- 1 HANDRAIL
- 2 SLIDING GATE FOR LONG TERM BICYCLE ENCLOSURE
- 3 START POINT OF CMU
- 4 FIBERGLASS DOOR AND FRAME
- 5 CMU WALL
- 6 WOODEN COLUMN ON CONCRETE PEDESTAL
- SEE STRUCTURAL
- 7 3 5/8" METAL STUDS WITH GYPSUM BOARD ON
INTERIOR OF TOILET ROOM
- 8 3/4" PLYWOOD SHEATHING ON INTERIOR OF
ELECTRICAL CLOSET

[illegible]

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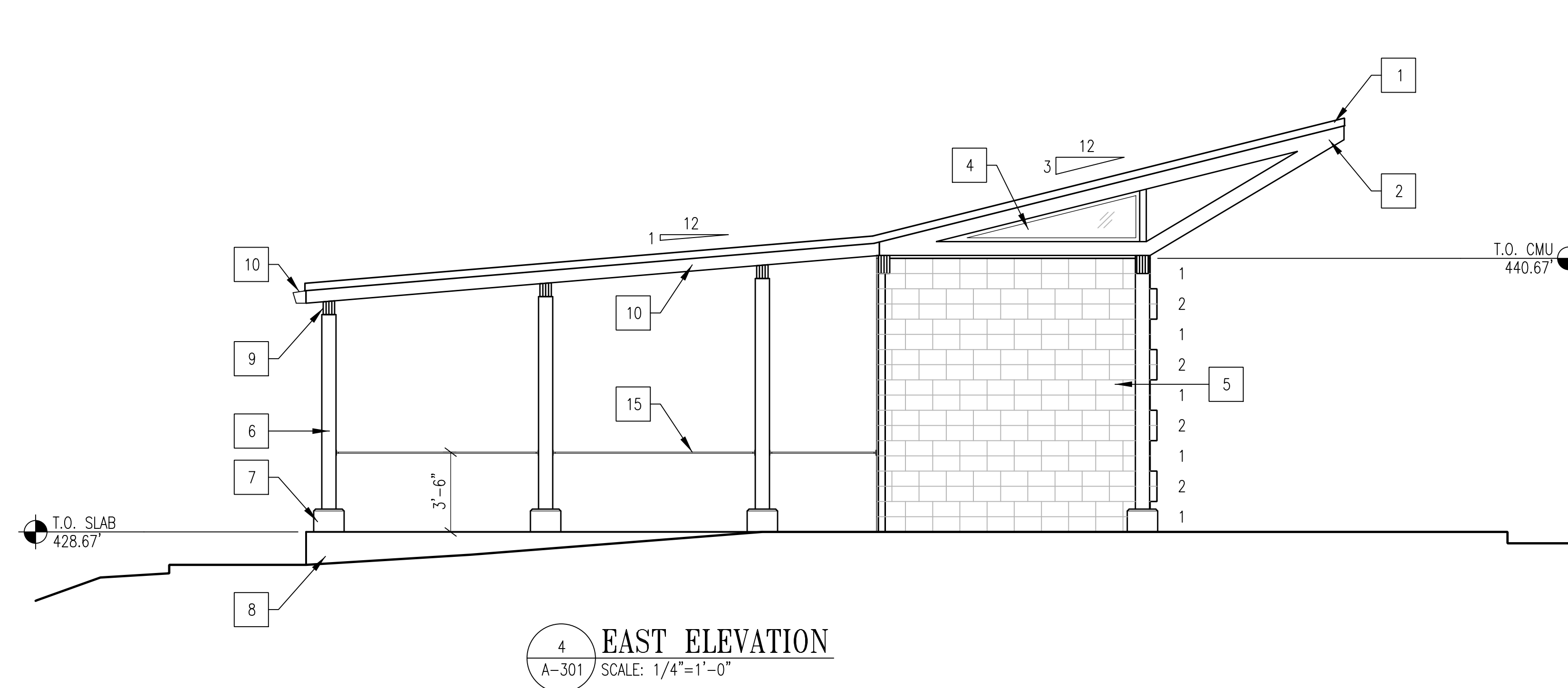
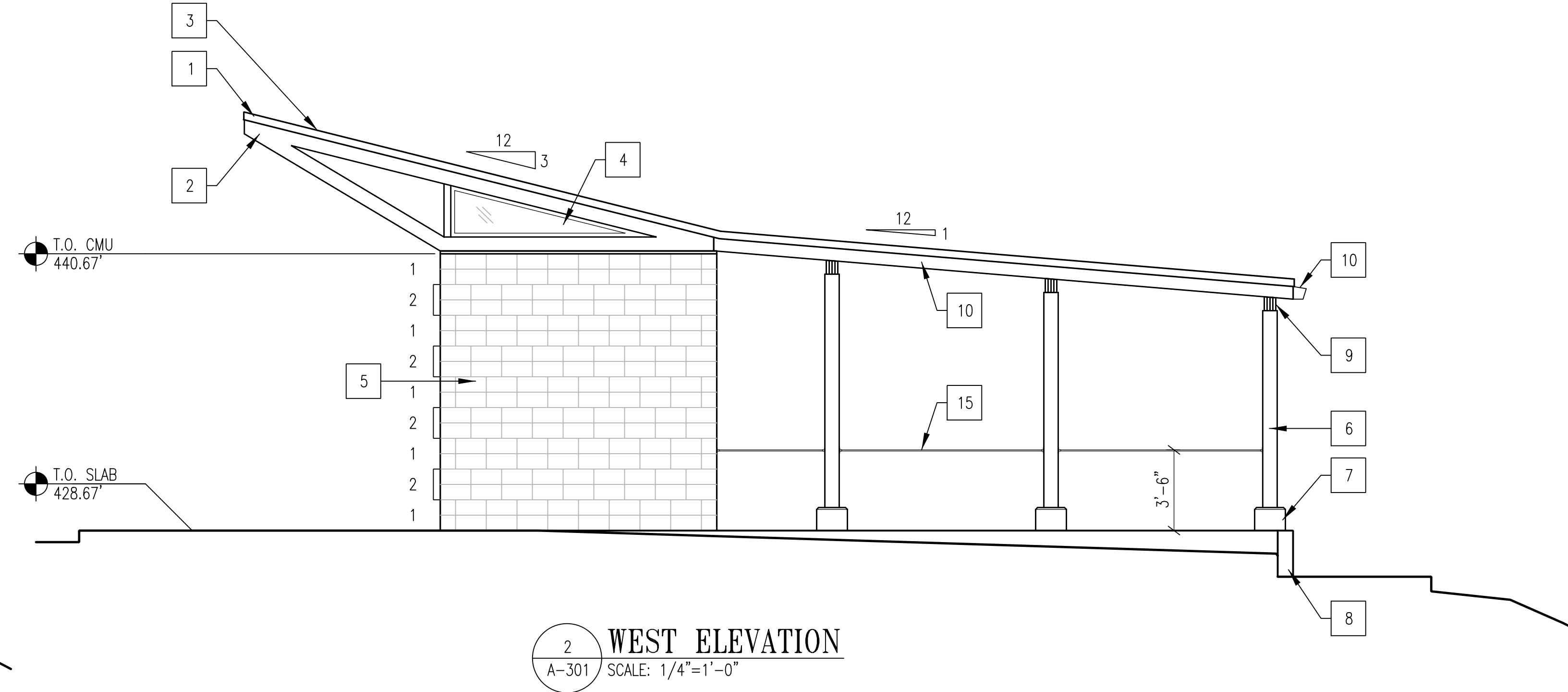
1. SHORT TERM BICYCLE PARKING = 12
LONG TERM BICYCLE PARKING = 14
TOTAL BICYCLE PARKING = 26

1	OUTLINE OF BICYCLE CLEARANCE
2	SHORT TERM BICYCLE PARKING, INVERTED U SHAPED RACK
3	LONG TERM BICYCLE STORAGE, VERTICAL HANGING RACK
4	2X6 TONGUE AND GROOVE WOOD SHEATHING
5	PAINTED WOOD TRUSS – SEE STRUCTURAL
6	PAINTED WOOD RAFTER – SEE STRUCTURAL
7	PAINTED WOOD BEAM – SEE STRUCTURAL
8	LOUVER – SEE MECHANICAL
9	GUTTER
10	OUTLINE OF BUILDING BELOW
11	CORRUGATED METAL ROOF
12	WOOD COLUMNS – SEE STRUCTURAL
13	PLUMBING VENT – SEE PLUMBING
14	SURFACE MOUNTED EXHAUST FAN – SEE MECHANICAL
15	DOWNSPOUT



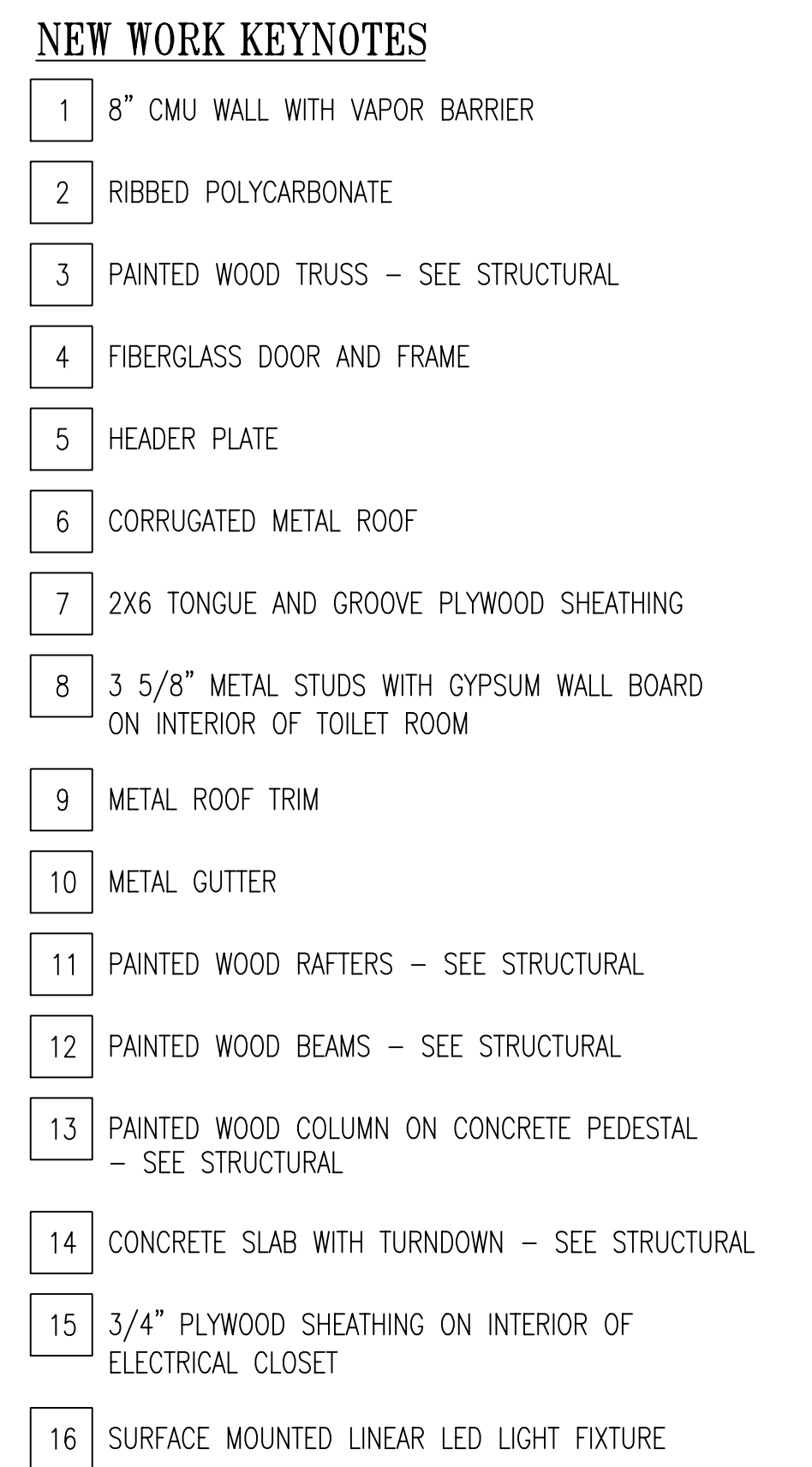
1. NUMBERS NEXT TO ELEVATIONS REFER TO CMU PATTERN

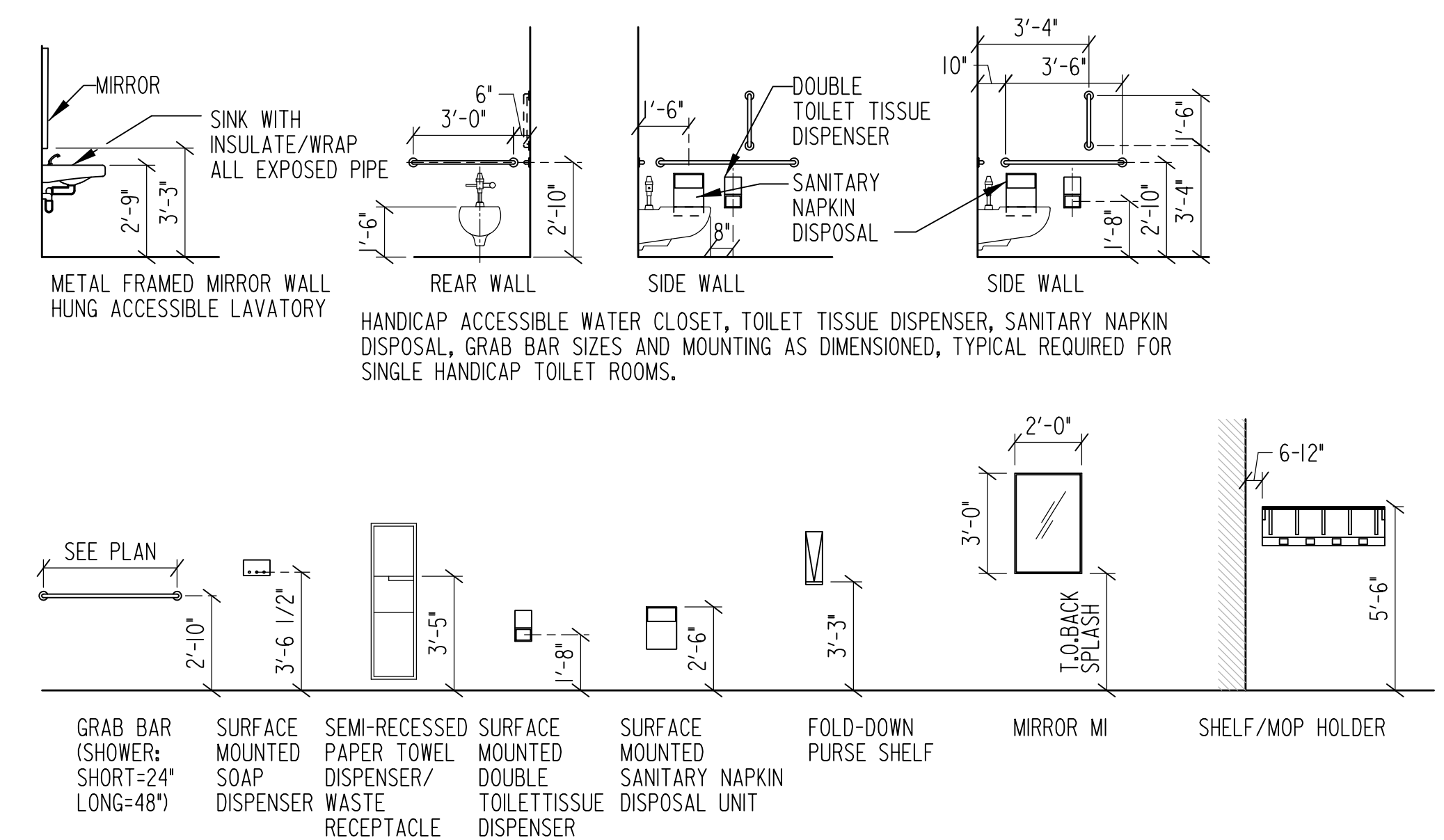
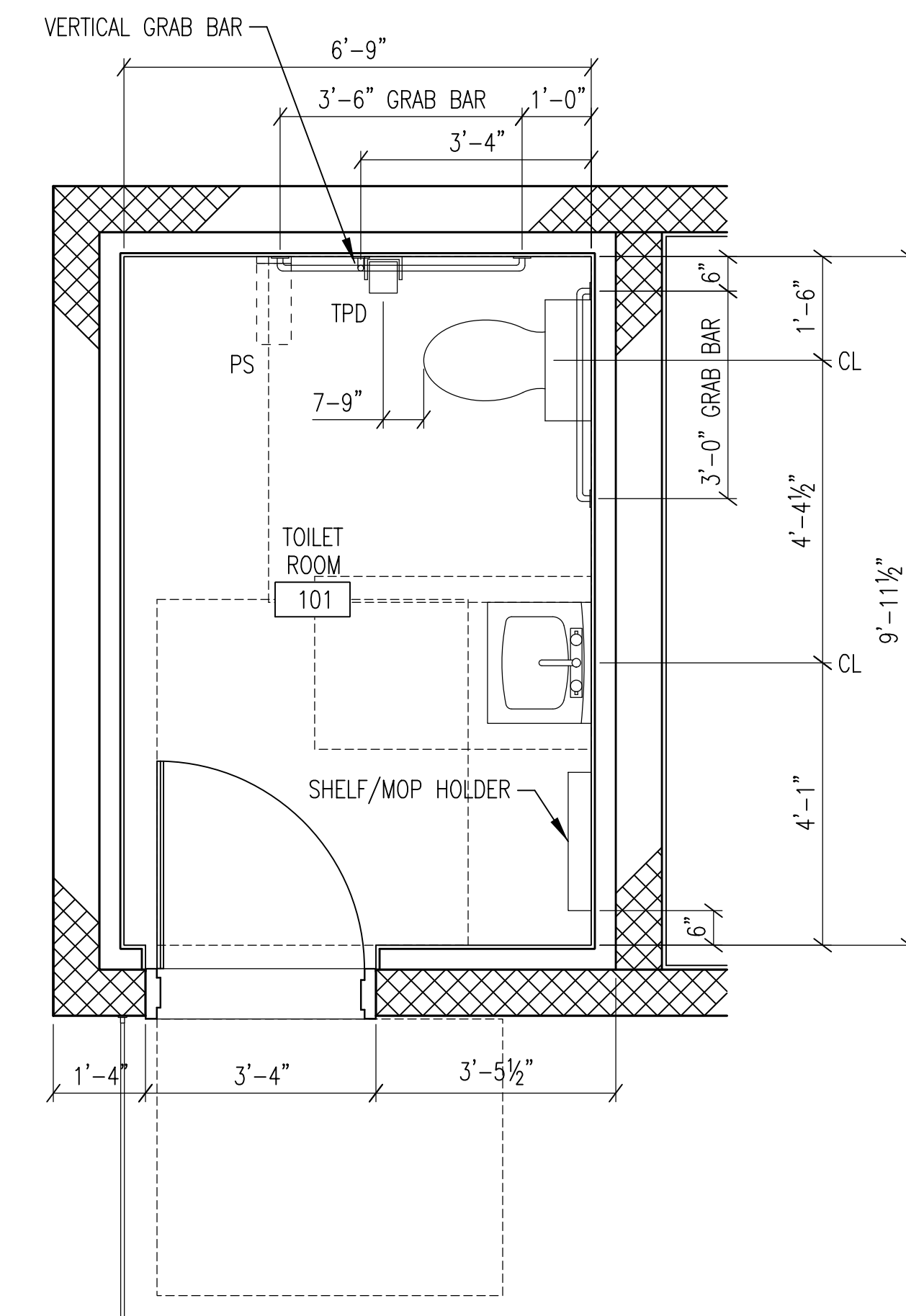
- 1 CORRUGATED METAL ROOF
- 2 PAINTED WOOD TRUSS
- 3 METAL EDGE ROOF TRIM
- 4 RIBBED POLYCARBONATE
- 5 SMOOTH FACE CMU
- 6 PAINTED WOOD COLUMN
- 7 CONCRETE PEDESTAL
- 8 CONCRETE RETAINING WALL
- 9 PAINTED WOOD BEAM
- 10 PAINTED WOOD RAFTER
- 11 METAL GUTTER
- 12 FIBERGLASS DOOR AND FRAME
- 13 METAL LOUVER
- 14 TONGUE AND GROOVE WOOD SHEATHING
- 15 PIPE HANDRAIL



Whitman, Requardt & Associates, LLP
801 South Caroline Street, Baltimore, Maryland 21231

	<h1 style="margin: 0;">A-301 - ELEVATIONS</h1> <h2 style="margin: 20px 0 0 0;">BOYDS TRANSIT IMPROVEMENTS</h2>	
SCALE : 1/4" = 1'-0"	JUNE 2022	
Project No. : <u>32207.003</u>	SHEET <u>XX</u> of <u>27</u>	





GENERAL

1. FIELD VERIFY DIMENSIONS, LOCATIONS AND ELEVATIONS SHOWN ON DRAWINGS FOR EXISTING STRUCTURES. BRING DISCREPANCIES TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
2. COORDINATE ACTIVITIES WITH THE OWNER.
3. NOT ALL OPENINGS IN THE STRUCTURAL WORK ARE SHOWN. REVIEW DRAWINGS FROM OTHER DISCIPLINES AND COORDINATE OPENINGS AND EMBEDDED ITEMS SUCH AS SLEEVES, ANCHORS, CONDUITS, ETC. INCORPORATED INTO THE STRUCTURAL WORK.
4. THE SPECIAL INSPECTION PROGRAM AND SPECIAL INSPECTOR WILL BE PROCURED AND FUNDED BY THE OWNER. COORDINATE APPLICABLE ACTIVITIES AND SCHEDULE WITH THE OWNER, SPECIAL INSPECTOR, AND THE STATEMENT OF SPECIAL INSPECTIONS INCLUDED IN THE SPECIFICATIONS.
5. THE DRAWINGS SHOW THE FINAL CONDITION OF THE STRUCTURES. PROVIDE MEANS TO STABILIZE THE STRUCTURES DURING TEMPORARY CONDITIONS.
6. SCALES NOTED ON THE DRAWINGS ARE FOR GENERAL INFORMATION ONLY. DO NOT OBTAIN DIMENSIONAL INFORMATION FROM DIRECT SCALING OF THE DRAWINGS.

SHALLOW FOUNDATIONS AND SLABS-ON-GROUND

1. DESIGN OF SHALLOW FOUNDATIONS AND SLABS-ON-GROUND IS IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT BY DATED XX/XX/XXX.
2. SHALLOW FOUNDATIONS, SUCH AS MAT FOUNDATIONS, THAT ARE NOT PART OF A PILE FOUNDATION SYSTEM, MUST BEAR UPON UNDISTURBED SOIL OR COMPACTED ENGINEERED FILL WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 3000 PSF. OBTAIN THE SERVICES OF A GEOTECHNICAL ENGINEER LICENSED IN THE STATE OF MARYLAND WHO IS RESPONSIBLE FOR VERIFICATION OF THE SPECIFIED MINIMUM ALLOWABLE BEARING CAPACITY AT EACH FOOTING.
3. SHALLOW FOUNDATION ELEVATIONS SHOWN ON THE DRAWINGS ARE MINIMUM EXCAVATION DEPTHS. EXCAVATE FURTHER AS REQUIRED TO REMOVE UNSATISFACTORY SOILS TO A LAYER WITH THE MINIMUM SPECIFIED ALLOWABLE BEARING CAPACITY. WHERE REQUIRED, PROVIDE COMPACTED ENGINEERED FILL TO ACHIEVE THE REQUIRED SUBGRADE ELEVATIONS. NOTIFY THE ENGINEER OF ANY CONDITIONS THAT REQUIRE CHANGES IN FOUNDATION ELEVATIONS.
4. PLACE SHALLOW FOUNDATIONS ON THE SAME DAY THAT THE BEARING SURFACE IS INSPECTED BY THE CONTRACTOR'S GEOTECHNICAL ENGINEER. ANY BEARING SURFACE NOT PLACED ON THE SAME DAY OF INITIAL INSPECTION MUST BE RE-INSPECTED BY THE CONTRACTOR'S GEOTECHNICAL ENGINEER ON THE DAY CONCRETE IS PLACED.
5. KEEP EXCAVATIONS DRY.
6. REMOVE UNSATISFACTORY SOILS BELOW SLABS-ON-GROUND TO A COMPETENT SOIL STRATUM AND REPLACE WITH COMPACTED ENGINEERED FILL
7. MINIMUM DEPTH BELOW GRADE FOR BOTTOM OF FOUNDATIONS FOR FROST PROTECTION IS 30 INCHES.
8. PROVIDE A 6" LAYER OF OPEN-GRADED COARSE AGGREGATE AND A 10-MIL VAPOR RETARDER BENEATH INTERIOR SLABS-ON-GROUND. SUBGRADE FOR SLABS-ON-GROUND MUST BE INSPECTED AND APPROVED BY THE CONTRACTOR'S GEOTECHNICAL ENGINEER BEFORE PLACING ANY CONCRETE OR OPEN-GRADED COARSE AGGREGATE.
9. REFER TO OTHER DISCIPLINES' DRAWINGS FOR WORK INCORPORATED IN, OR COORDINATED WITH, FOUNDATION AND SLAB-ON-GROUND WORK.
10. PROVIDE SUPPORT OF EXCAVATIONS REQUIRED TO COMPLETE THE WORK SHOWN ON THE DRAWINGS. SUPPORT OF EXCAVATION SYSTEMS MUST BE DESIGNED BY THE CONTRACTOR'S PROFESSIONAL ENGINEER.

CONCRETE

1. PROVIDE NORMAL-WEIGHT CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS AS FOLLOWS, UNLESS NOTED OTHERWISE.
2. EXTERIOR CONCRETE MUST BE AIR ENTRAINED.
3. DETAIL AND CONSTRUCT REINFORCED CONCRETE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE", AND AS SPECIFIED HEREIN.
4. DETAIL REINFORCING STEEL IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE ACI 315, "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" AND ACI SP-66, "ACI DETAILING MANUAL."
5. PROVIDE REINFORCING STEEL CONFORMING TO ASTM A615, GRADE 60, DEFORMED BARS. REINFORCING STEEL REQUIRING WELDABILITY MUST CONFORM TO ASTM A706, GRADE 60, DEFORMED BARS.
6. UNLESS NOTED OTHERWISE ON THE DRAWINGS, PROVIDE CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS:
 - A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH, FILL, OPEN-GRADED COARSE AGGREGATE:
3"
 - B. CONCRETE EXPOSED TO WEATHER OR IN CONTACT WITH: EARTH; OR FILL: 2"
 - C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH: EARTH; OR FILL:
 - i. SLABS AND WALLS: 3/4"
 - ii. BEAMS, COLUMNS, AND PEDESTALS: 1-1/2"
7. SUBMIT REINFORCING STEEL DETAILS AND JOINT LAYOUT (SHOP DRAWINGS) AND RECEIVE APPROVAL FROM THE ENGINEER BEFORE PROCEEDING WITH FABRICATION.
8. CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" UNLESS NOTED OTHERWISE.
9. DETAIL ALL SPLICES AND STANDARD HOOKS FOR REINFORCING BARS NOT DIMENSIONED ON THE DRAWINGS AS TABULATED ON SHEET SXXX.
10. PROVIDE JOINTS ONLY AS DETAILED ON THE DRAWINGS AND ON APPROVED SHOP DRAWINGS. DO NOT PROVIDE ADDITIONAL JOINTS NOR OMIT ANY JOINTS EXCEPT BY WRITTEN AUTHORIZATION FROM THE ENGINEER. APPROVED ADDITIONAL JOINTS MUST NOT RESULT IN ADDITIONAL EXPENSE TO THE OWNER.
11. PROVIDE CONSTRUCTION JOINT INTERFACE CLEAN AND FREE OF LAITANCE. WHERE INDICATED ON THE DRAWINGS, INTENTIONALLY ROUGHEN CONSTRUCTION JOINTS TO A FULL AMPLITUDE OF 1/4 INCH. IMMEDIATELY BEFORE NEW CONCRETE IS PLACED, CONSTRUCTION JOINTS MUST BE PREWETTED AND STANDING WATER REMOVED.
12. WHERE A CONCRETE MEMBER IS SLOPED (TOP AND/OR BOTTOM), PROVIDE SLOPED REINFORCING STEEL PARALLEL TO THE CONCRETE SURFACE UNLESS OTHERWISE NOTED.
13. OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS ARE PRINCIPAL OPENINGS. REVIEW DRAWINGS FROM OTHER DISCIPLINES AND COORDINATE OPENINGS AND EMBEDDED ITEMS SUCH AS SLEEVES, ANCHORS, CONDUIT, ETC. INCORPORATED INTO THE CONCRETE WORK.
14. COLD WEATHER PLACEMENT OF CONCRETE MUST BE IN ACCORDANCE WITH ACI 306R, ACI 306.1, AND THE SPECIFICATIONS.
15. HOT WEATHER PLACEMENT OF CONCRETE MUST BE IN ACCORDANCE WITH ACI 305R, ACI 305.1, AND THE SPECIFICATIONS.

CONCRETE MASONRY

3. CONSTRUCT MASONRY IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE ACI-530/ ASCE 5/ TMS 402, (2016) ?BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES? AND ACI 530.1/ ASCE 6/ TMS 602 (2016) ?SPECIFICATION FOR MASONRY STRUCTURES?.
2. PROVIDE HOLLOW LIGHTWEIGHT LOAD-BEARING CONCRETE MASONRY UNITS MEETING THE REQUIREMENTS OF ASTM C90.
3. PROVIDE MORTAR CONFORMING TO THE REQUIREMENTS OF ASTM C-270. CEMENT USED FOR MORTAR MUST BE PORTLAND CEMENT.
4. PROVIDE GROUT CONFORMING TO THE REQUIREMENTS OF ASTM C476 COARSE OR FINE GROUT, WITH A MINIMUM COMPRESSIVE STRENGTH EQUAL TO OR GREATER THAN THE SPECIFIED COMPRESSIVE STRENGTH OF MASONRY (F'm) BUT NOT LESS THAN 2,000 PSI AT 28 DAYS.
5. PROVIDE CONCRETE MASONRY WITH A MINIMUM COMPRESSIVE STRENGTH F'm) OF 2,000 PSI. PROVIDE CONCRETE MASONRY UNITS WITH A SPECIFIED MINIMUM NET AREA COMPRESSIVE STRENGTH 2,000 PSI.
6. PROVIDE REINFORCING STEEL CONFORMING TO ASTM A615, GRADE 60, DEFORMED BARS. REINFORCING STEEL REQUIRING WELDABILITY MUST CONFORM TO ASTM A706, GRADE 60, DEFORMED BARS.
7. UNLESS NOTED OTHERWISE ON THE DRAWINGS, PROVIDE MASONRY COVER FOR REINFORCING STEEL AS FOLLOWS:
 - A. MASONRY FACE EXPOSED TO EARTH, FILL, OR WEATHER:
 - i. BARS LARGER THAN #5: 2"
 - ii. #5 BARS AND SMALLER: 1-1/2"
 - B. MASONRY FACE NOT EXPOSED TO EARTH, FILL, OR WEATHER: 1-1/2"
8. FULLY GROUT CELLS CONTAINING REINFORCING STEEL, CELLS IN CONTACT WITH EARTH OR FILL, AND THE BOTTOM COURSE OF WALLS.
9. LAY MASONRY IN RUNNING BOND AND INTERLOCK MASONRY AT WALL INTERSECTIONS, UNLESS OTHERWISE NOTED.
10. REINFORCE MORTAR JOINTS OF MASONRY WALLS WITH HORIZONTAL JOINT REINFORCING AT 16" ON CENTER MAXIMUM. PROVIDE 9 GAUGE LADDER-TYPE HORIZONTAL JOINT REINFORCING CONFORMING TO ASTM A1064.
11. PROVIDE CONTINUOUS BOND BEAMS AT THE TOP OF WALLS, AT BEARING ELEVATIONS, AND AT OTHER LOCATIONS SPECIFIED ON THE DRAWINGS.

WOOD

1. DIMENSIONAL LUMBER MEMBERS SHALL BE SOUTHERN PINE, GRADED NO. 1, OR APPROVED EQUAL. THE REFERENCE DESIGN VALUES FOR SOLID SAWN MEMBER SHALL SATISFY THE VALUES FOR "SOUTHERN PINE NO. 1" AS INDICATED IN NDS-2018 "DESIGN VALUES FOR WOOD CONSTRUCTION."
2. PROVIDE HOT-DIPPED GALVANIZED ASTM A307 STEEL BOLTS, WITH ASTM A 563 HEX HEAD NUTS, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURAL WOOD MEMBERS SHALL BE TREATED WITH PRESERVATIVES.
4. ROOF DECKING DIMENSIONS ARE ACTUAL SIZES.

DESIGN LOADS AND CRITERIA

ALL LOADS INDICATED BELOW ARE UNFACTORED

1. RISK CATEGORY: II
2. DEAD LOADS:
 - A. STRUCTURES: ACTUAL WEIGHT
 - B. SUPERIMPOSED DEAD LOAD:
 - i. ROOF: 15 PSF
 - ii. SUPERIMPOSED DEAD LOAD INCLUDES COMBINED WEIGHT OF ALL PERMANENT NON-STRUCTURAL COMPONENTS SUPPORTED BY THE FRAMING, INCLUDING MEP COMPONENTS, ROOFING, AND FLOOR AND CEILING FINISHES.
3. LIVE LOADS:
 - A. FLOOR SLAB: 60 PSF
 - B. GUARDRAIL – 200 LBS AT EACH POST OR 50 PLF ALONG THE TOP RAIL, WHICHEVER IS GREATER.
4. ROOF LIVE LOAD: 20 PSF OR 300 LB CONCENTRATED LOAD
5. ROOF SNOW LOAD:
 - A. GROUND SNOW LOAD (P_g): 25 PSF
 - B. EXPOSURE FACTOR (C_e): 1.0
 - C. THERMAL FACTOR (C_t): 1.2
 - D. SNOW LOAD IMPORTANCE FACTOR (I_s): 1.0
 - E. FLAT ROOF SNOW LOAD (P_f): 20 PSF
 - F. SNOW DRIFT: SEE DIAGRAMS ON DRAWINGS
6. WIND LOAD:
 - A. ULTIMATE WIND SPEED (V_{ult}): 112 MPH
 - B. NOMINAL WIND SPEED (V_{asd}): 89 MPH
 - C. EXPOSURE CATEGORY: C
 - D. INTERNAL PRESSURE COEFFICIENT: $+/- 0.18$
 - E. COMPONENTS AND CLADDING: PER ASCE 7-16
7. SEISMIC LOAD:
 - A. SEISMIC IMPORTANCE FACTOR (I_e): 1.0
 - B. MAXIMUM EARTHQUAKE SPECTRAL RESPONSE ACCELERATION AT SHORT PERIODS: $S_s=0.135g$
 - C. MAXIMUM EARTHQUAKE SPECTRAL RESPONSE ACCELERATION AT ONE-SECOND: $S_1=0.043g$
 - D. SITE CLASSIFICATION: D
 - E. SITE SEISMIC COEFFICIENT: $F_a=1.6$; $F_v=2.4$
 - F. SPECTRAL RESPONSE COEFFICIENTS: $SDS = 0.144$; $SD1 = 0.069$
 - G. SEISMIC DESIGN CATEGORY: B
 - H. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE
 - I. BASIC SEISMIC FORCE RESISTING SYSTEM: ORDINARY REINFORCED CMU SHEAR WALLS
 - J. RESPONSE MODIFICATION FACTOR: $R=2$
 - K. SEISMIC RESPONSE COEFFICIENT: $C_s=0.072$
 - L. DESIGN BASE SHEAR, $V = C_s * W$ (W, EFFECTIVE SEISIC WEIGHT OF STRUCTURE)

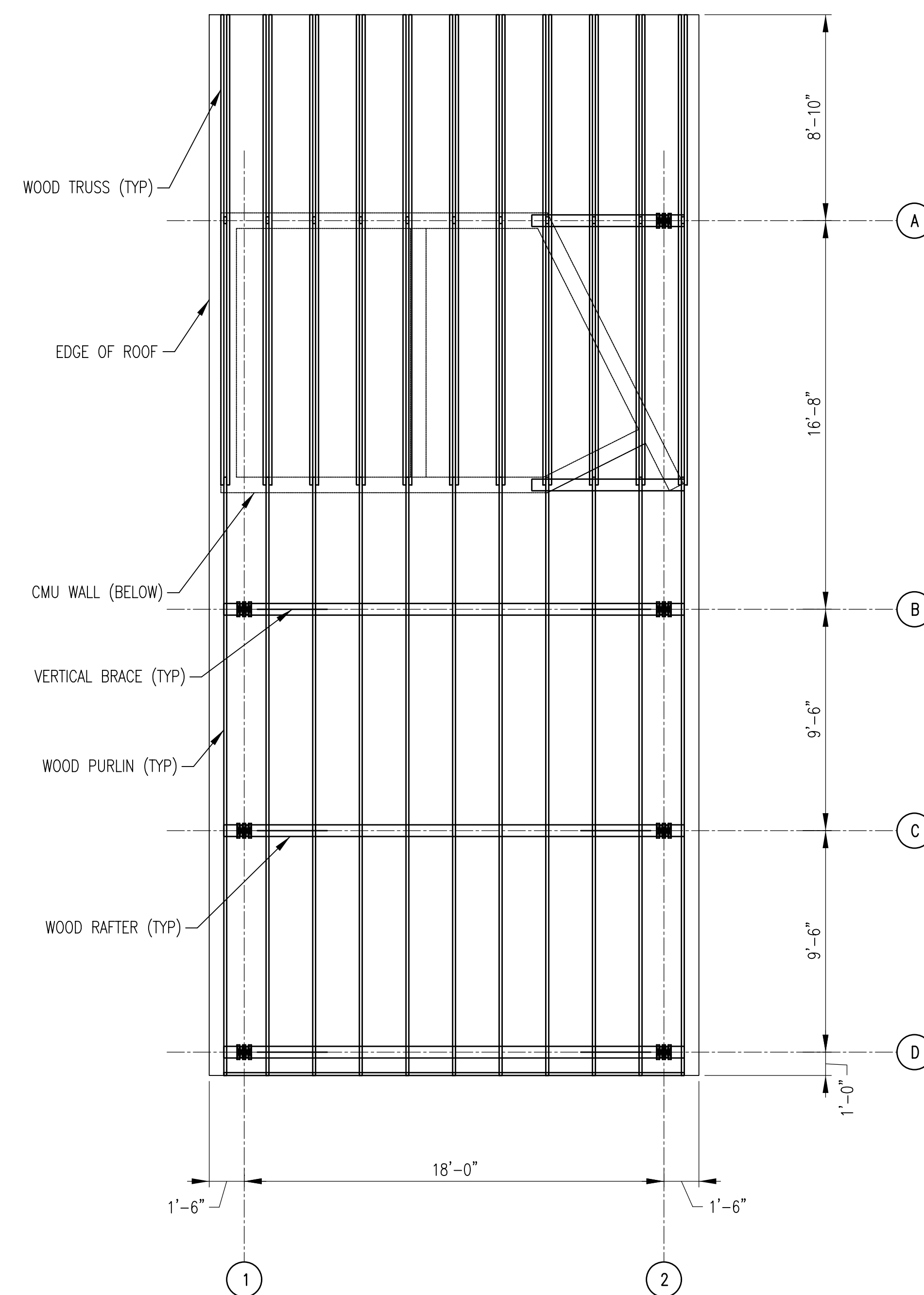
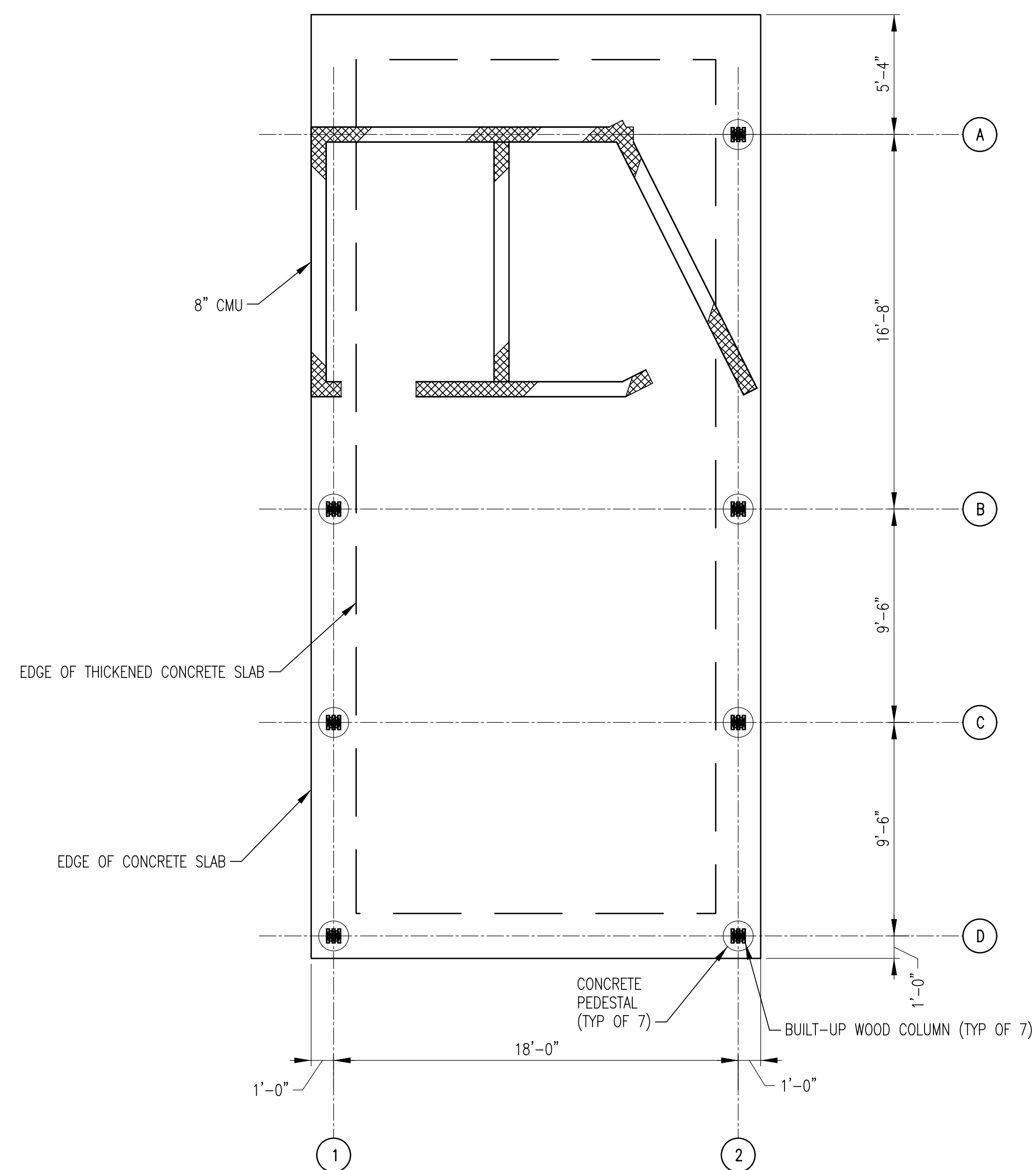
CODES AND STANDARDS

1. INTERNATIONAL BUILDING CODE IBC (2018), INCLUDING THE MODIFICATIONS MADE BY LOCAL JURISDICTION
2. AMERICAN INSTITUTE OF STEEL CONSTRUCTION AISC 360 (2016) "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS"
3. AMERICAN CONCRETE INSTITUTE ACI 318 (2014), "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
4. THE MASONRY SOCIETY (TMS)
 - A. TMS 402 (2016), "BUILDING CODE FOR MASONRY STRUCTURES"
 - B. TMS 602 (2016), "SPECIFICATION FOR MASONRY STRUCTURES"
5. AMERICAN WOOD COUNCIL NDS (2018), "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION"
6. AMERICAN SOCIETY OF CIVIL ENGINEERS ASCE 7 (2016), "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES"

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6/8/2022

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EXPIRATION DATE: _____



Whitman, Requardt & Associates, LLP
801 South Caroline Street, Baltimore, Maryland 21231

[illegible]

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section Date

APPROVED

Chief, Division of Transportation Engineering _____ Date _____

[illegible]

S1-01 STRUCTURAL PLANS

BOYDS TRANSIT
IMPROVEMENTS

SCALE : 1/4" = 1' 0" LINE 2023

SCALE : 1/4" = 1'-0"	JUNE 2022
300007.007	100 07

1. GENERAL NOTES ARE DISCIPLINE SPECIFIC, AND APPLY TO EVERY DRAWING IN THAT DISCIPLINE. DRAWING NOTES APPLY TO ALL WORK SHOWN ON A DRAWING. CONTRACTOR/DEMOLITION NOTES APPLY TO INDIVIDUAL SITUATIONS AND EQUIPMENT.
2. MAKE PROPER CONNECTION TO FIXTURES AND EQUIPMENT. DRAWINGS ARE SCHEMATIC AND ALL BRANCH MAINS, ELBOWS, AND CONNECTIONS ARE NOT SHOWN.
3. COORDINATE LOCATION OF DUCTWORK WITH LIGHTING FIXTURES, PIPING, EQUIPMENT AND BUILDING STRUCTURE. DUCTWORK SHALL BE RUN TO AVOID CONFLICTS WITH OTHER TRADES.
4. DO NOT LOCATE MECHANICAL EQUIPMENT DIRECTLY ABOVE ELECTRICAL SUBSTATIONS, CABLE TRAYS, TRANSFORMERS, PANEL BOARDS, OR SWITCHGEAR.
5. DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE.
6. INSTALL DUCTWORK SO THAT DAMPERS ARE ACCESSIBLE.
7. CERTAIN ITEMS SUCH AS ACCESS DOORS, RISE AND DROPS IN DUCTWORK ETC., ARE INDICATED ON THE DRAWINGS FOR CLARITY OR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE ITEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THESE ITEMS AS REQUIRED IN THE CONTRACT DRAWINGS AND SPECIFICATIONS.
8. DETAILS WITHOUT SPECIFIC REFERENCE TO A LOCATION SHALL BE APPLIED TO THE GENERAL INSTALLATION OF PIPES, DUCTS, ETC.
9. MOUNT TEMPERATURE SENSORS 48" AFF UNLESS NOTED OTHERWISE.

NEW EQUIPMENT
NEW WORK LINE WEIGHT
TEMPERATURE SENSOR

O	AT
&	AND
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
BOD	BACK DRAFT DAMPER
BOD	BOTTOM OF DUCT
BTUH	BRITISH THERMAL UNIT PER HOUR
CAP	CAPACITY
	CUBIC FEET PER MINUTE
DEG F, °F	DEGREE FAHRENHEIT
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
EFF	EXHAUST FAN
EFF, %	EFFICIENCY
ESP, TSP	EXTERNAL/TOTAL STATIC PRESSURE
EXH	EXHAUST
EWB	ELECTRIC WALL HEATER
FLA	FULL LOAD AMPERES
FT	FEET
HP	HORSEPOWER
HERZ	HERTZ
IN	INCH
INV	INVERT
KW	KILOWATT
MAX	MAXIMUM
MIN	MINIMUM
N	NORTH
NTS	NOT TO SCALE
PD	PRESSURE DROP
PH	PHASE
RPM	REVOLUTIONS PER MINUTE

1	INLINE EXHAUST FAN MOUNTED AT 8'-0" AFF AND CONNECT TO LOUVER ABOVE DOOR. BLANK OFF ADDITIONAL LOUVER AREA. REFER TO ARCHITECTURAL PLANS FOR LOUVER INSTALLATION.
2	ELECTRIC WALL HEATER MOUNTED AT 12" AFF.

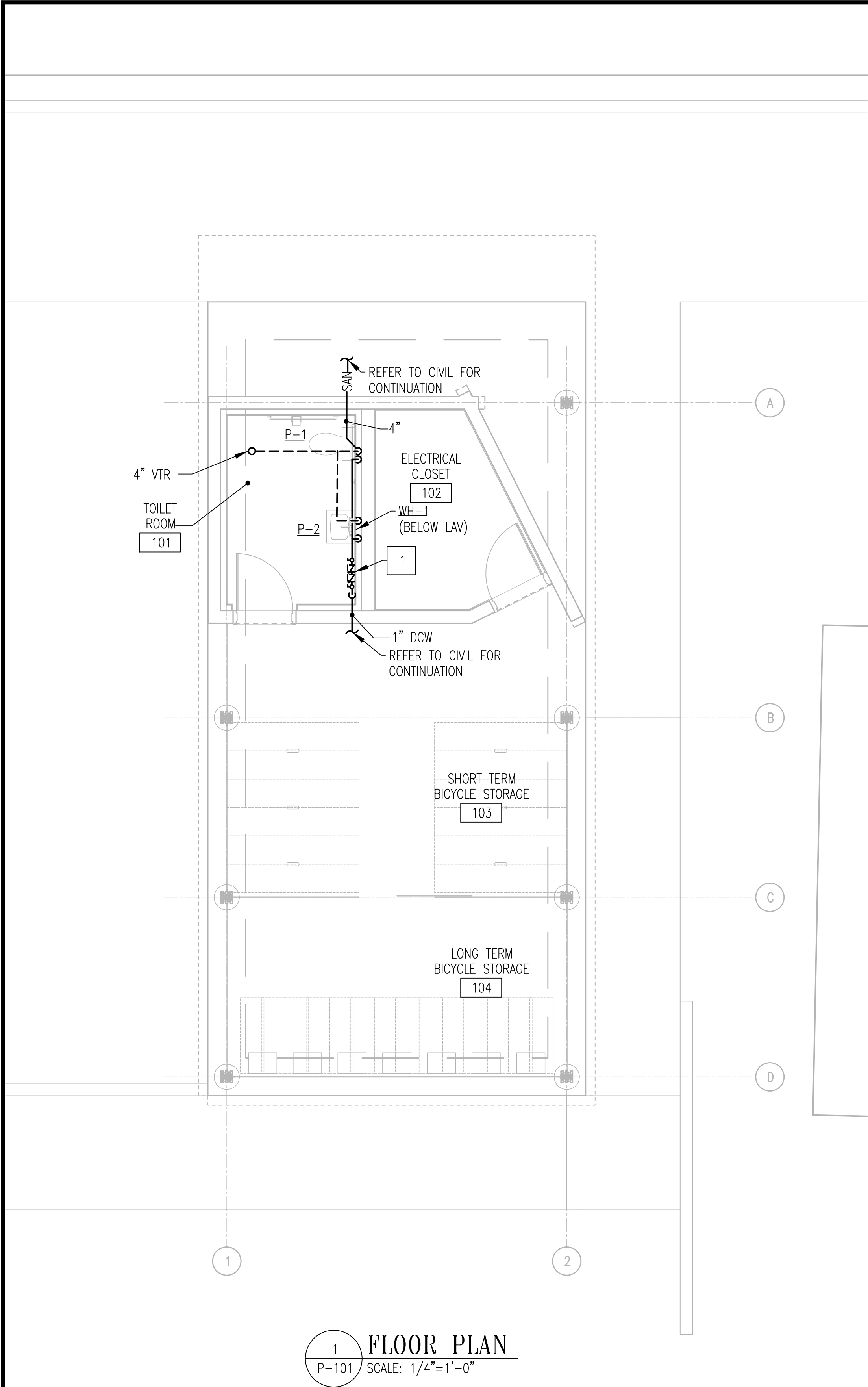


FAN SCHEDULE												
UNIT ID	TYPE	SERVICE	LOCATION	MAX. CFM	ESP (IN. WG)	FAN RPM	DRIVE TYPE	METHOD OF CONTROL	ELECTRICAL DATA		BASIS OF DESIGN	NOTES
									HP	VOLTS/PH		
EF-1	INLINE	EXHAUST	TOILET ROOM	75	0.3	1550	DIRECT	TIMER	1/40	115/1	GREENHECK SQ-60	
EF-2	INLINE	EXHAUST	ELEC ROOM	75	0.3	1550	DIRECT	TSTAT	1/40	115/1	GREENHECK SQ-60	

[illegible]

Whitman, Requardt & Associates, LLP
801 South Caroline Street, Baltimore, Maryland 21231

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6/10/2022



1 FLOOR PLAN
P-101 SCALE: 1/4"=1'-0"

NEW WORK KEYNOTES

- 1 1" DOUBLE CHECK BACKFLOW PREVENTER MOUNTED AT 36" AFF.

GENERAL NOTES:

- GENERAL NOTES ARE DISCIPLINE SPECIFIC, AND APPLY TO EVERY DRAWING IN THAT DISCIPLINE. DRAWING NOTES APPLY TO ALL WORK SHOWN ON A DRAWING. CONTRACTOR NOTES APPLY TO INDIVIDUAL SITUATIONS AND EQUIPMENT.
- SLOPES AND INVERT ELEVATIONS SHALL BE ESTABLISHED BEFORE ANY PIPING IS INSTALLED IN ORDER TO MAINTAIN PROPER SLOPES.
- MAKE PROPER CONNECTION TO FIXTURES AND EQUIPMENT. DRAWINGS ARE SCHEMATIC AND ALL BRANCH MAINS, ELBOWS, AND CONNECTIONS ARE NOT SHOWN.
- COORDINATE LOCATION OF PIPING WITH LIGHTING FIXTURES, OTHER PIPING AND DUCTWORK, EQUIPMENT AND BUILDING STRUCTURE. PIPING SHALL BE RUN TO AVOID CONFLICTS WITH OTHER TRADES.
- DO NOT RUN PIPING DIRECTLY ABOVE ELECTRICAL SUBSTATIONS, CABLE TRAYS, TRANSFORMERS, PANEL BOARDS, OR SWITCHGEAR.
- DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE.
- UNLESS NOTED OTHERWISE, PIPING IS OVERHEAD, TIGHT TO UNDERSIDE OF STRUCTURE, WITH SPACE FOR INSULATION IF REQUIRED.
- INSTALL PIPING SO THAT VALVES ARE ACCESSIBLE.
- CERTAIN ITEMS SUCH AS PIPING, ETC., ARE INDICATED ON THE DRAWINGS FOR CLARITY OR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE ITEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THESE ITEMS AS REQUIRED IN THE CONTRACT DRAWINGS AND SPECIFICATIONS.
- SCHEMATIC AND RISER DIAGRAMS INDICATE FLOW AND OPERATIONAL CONCEPT AS WELL AS GENERAL ARRANGEMENT OF EQUIPMENT, VALVES, PRESSURE GAUGES, ETC. ADDITIONAL VALVES PRESSURE GAUGES, ETC. SHALL BE PROVIDED AS SHOWN ON DETAILS AND AS INDICATED IN SPECIFICATIONS.
- DETAILS WITHOUT SPECIFIC REFERENCE TO A LOCATION SHALL BE APPLIED TO THE GENERAL INSTALLATION OF PIPES, ETC.

PLUMBING LEGEND

	NEW EQUIPMENT
	NEW WORK LINE WEIGHT
	TEE TURNED UP
	TEE TURNED DOWN
	PIPING TURNED DOWN
	PIPING TURNED UP
	SANITARY PIPING
	DOMESTIC COLD WATER
	VENT PIPING
	REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY
	WALL CLEANOUT
	FLOOR CLEANOUT
	BALL VALVE
	DIRECTION OF FLOW ARROW

PLUMBING ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
BTUH	BRITISH THERMAL UNIT PER HOUR
CAP	CAPACITY
CO	CLEANOUT
DCW	DOMESTIC COLD WATER, POTABLE
DEG F, °F	DEGREE FAHRENHEIT
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
EFF	EFFICIENCY
FLA	FULL LOAD AMPERES
FT	FEET
GAL	GALLONS
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HW	HOT WATER, POTABLE
HZ	HERTZ
IN	INCH
INV	INVERT
KW	KILOWATT
MAX	MAXIMUM
MIN	MINIMUM
N	NORTH
NTS	NOT TO SCALE
PH	PHASE
V	VENT
VTR	VENT THROUGH ROOF
WH	WATER HEATER

INSTANTANEOUS DOMESTIC WATER HEATER SCHEDULE

UNIT ID	LOCATION	TYPE	CAPACITY INPUT (KW)	TEMP RISE @ 1 GPM (DEG F)	ACTIVATION FLOW (GPM)	VOLTS/PH	BASIS OF DESIGN	NOTES
WH-1	TOILET ROOM	ELECTRIC	4.2	28	0.35	208/1	CHRONOMITE SR-20L	

PLUMBING FIXTURE SCHEDULE

UNIT ID	DESCRIPTION	CW (IN)	HW (IN)	SAN (IN)	VENT (IN)	WSFU	DFU	REMARKS	BASIS OF DESIGN
P-1	WATER CLOSET FLOOR MOUNTED, TANK TYPE	3/4	-	4	2	2.2	3	TANK TYPE , 1.28 GPF	AMERICAN STANDARD, CADET 3
P-2	LAVATORY WALL MOUNTED BARRIER FREE	1/2	1/2	1 1/2	1 1/2	2	1	MANUAL FAUCET 0.5 GPM (NOTE 1)	AMERICAN STANDARD, LUCERNE

NOTE:

1. PROVIDE ASSE 1070 INDIVIDUAL MIXING VALVE AT THE LAVATORY FAUCET TO PROVIDE A MAXIMUM HOT WATER TEMPERATURE AT THE OUTLET OF THE FAUCET OF 110° F FOR PUBLIC HANDWASHING SINKS.

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THAT I AM A DULY LICENSED PROFESSIONAL
ENGINEER UNDER THE LAWS OF THE STATE
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MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section
APPROVED _____ Date _____

Chief, Division of Transportation Engineering

Date _____

Designed by: NA Drawn by: NA Checked by: XXX

P-101 – FLOOR PLAN

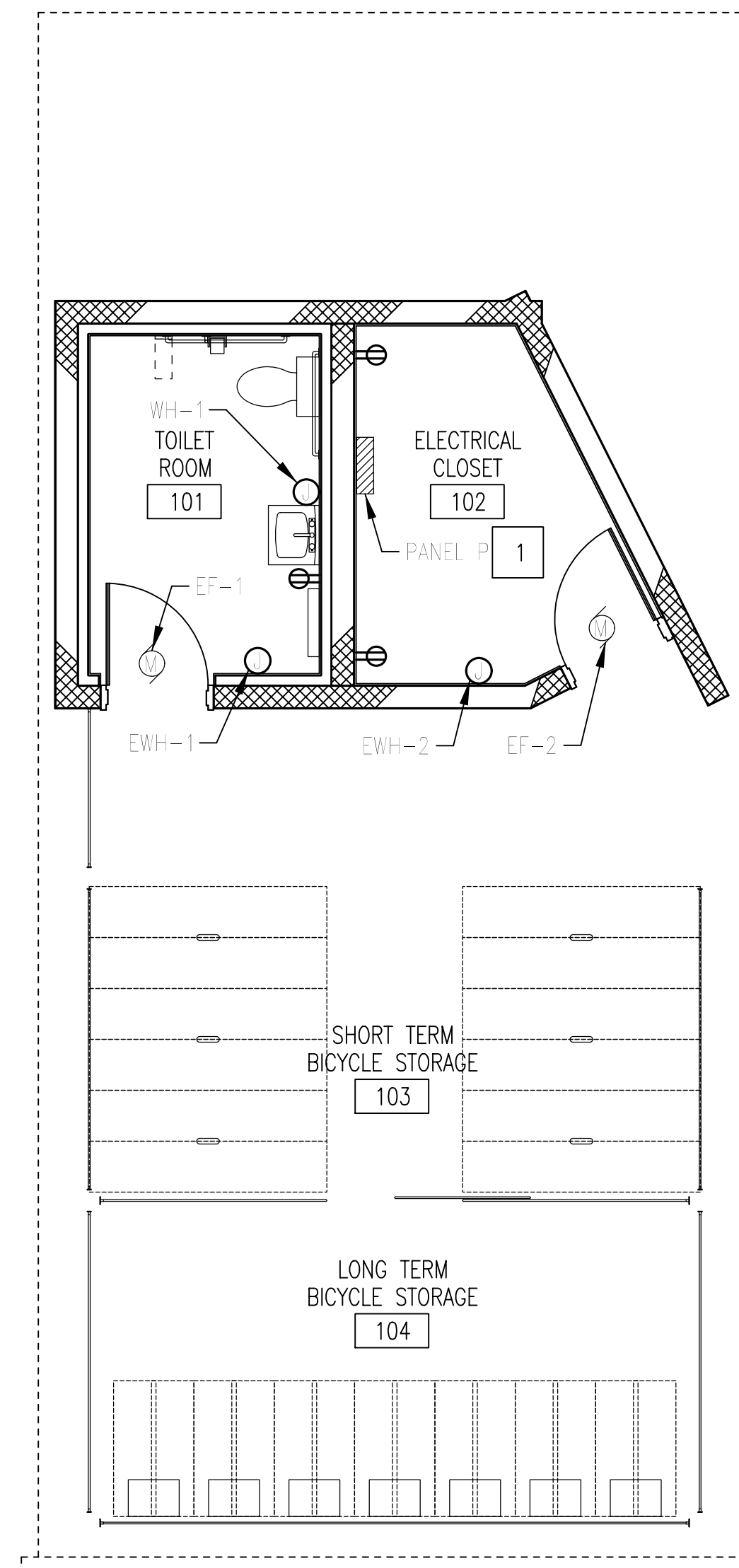
BOYDS TRANSIT
IMPROVEMENTS

SCALE : 1/4" = 1'-0" JUNE 2022

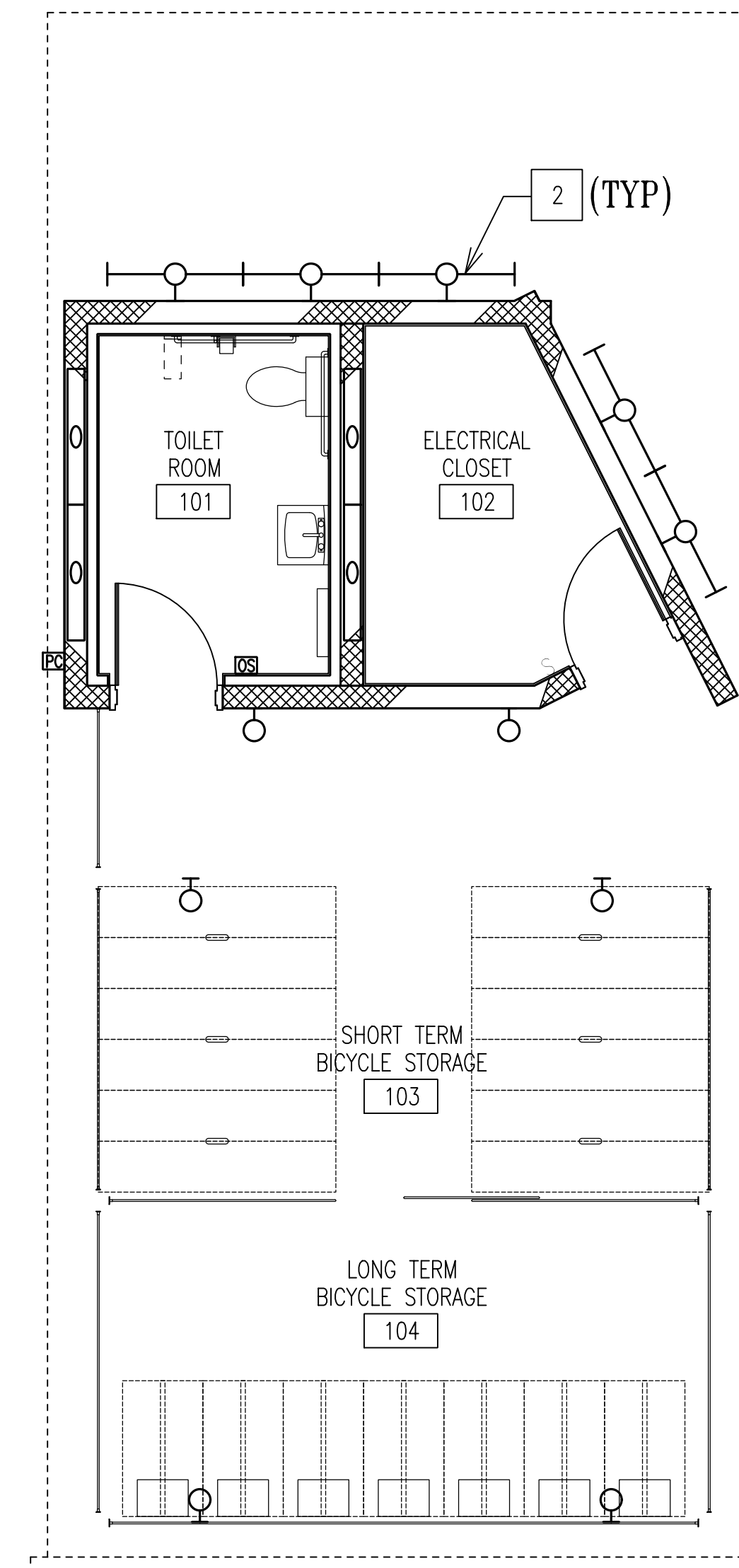
Project No. : 32207.003 SHEET XX of 27

NEW WORK KEYNOTES

- 1 PROVIDE NEW 208/120V PANEL, COORDINATE UNDERGROUND FEEDER INTO ELECTRICAL ROOM WITH ELECTRIC UTILITY COMPANY.
- 2 PHOTOCELL CONTROLS EXTERIOR LUMINAIRES.



1 POWER PLAN
E-101 SCALE: 1/4"=1'-0"



2 LIGHTING PLAN
E-101 SCALE: 1/4"=1'-0"

				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND		E-101 - POWER AND LIGHTING PLANS	
				RECOMMENDED FOR APPROVAL			
				Chief, Transportation Planning and Design Section APPROVED		Date	
				Chief, Division of Transportation Engineering		Date	
				Designed by: <u>AK</u> Drawn by: <u>AK</u> Checked by: <u>IK</u>		SCALE: 1/4" = 1'-0"	
NO. REVISION DATE BY						Project No.: <u>32207.003</u> SHEET <u>XX</u> of <u>27</u>	